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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/328,484	06/09/1999	HIDEAKI FUNAKOSHI	3064NG/47927	6889
75	90 09/08/2003			
CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP			EXAMINER	
			BROWN, RUEBEN M	
P.O. BOX 1430				
WASHINGTON, DC 20044-4300			ART UNIT	PAPER NUMBER
			2611	Q
			DATE MAILED: 09/08/2003	7

Please find below and/or attached an Office communication concerning this application or proceeding.



Application No.	Applicant(s)		
09/328,484	FUNAKOSHI, HIDEAKI		
Examiner	Art Unit		
Brown M. Reuben	2611		

MG Corres Antique 0	09/328,484	FUNAKOSHI, HIDE	FUNAKOSHI, HIDEAKI	
Office Action Summary	Examiner	Art Unit		
	Brown M. Reuben	2611		
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence add	ress	
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, if NO period for reply is specified above, the maximum statutory properties to reply within the set or extended period for reply will, by set of the period for reply within the set or extended period for reply will, by set of the period for reply within the set or extended period for reply will, by set of the period for reply within the set or extended period for reply will, by set of the period for reply within the set or extended period for reply set of the period for reply set	ON. FR 1.136(a). In no event, however, may a r n. a reply within the statutory minimum of thin erold will apply and will expire SIX (6) MON	reply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this con	nmunication.	
1) Responsive to communication(s) filed on	03 October 2002 .			
	This action is non-final.			
3) Since this application is in condition for al closed in accordance with the practice un Disposition of Claims	ider <i>Εχ paπe Quayle</i> , 1935 C.(tters, prosecution as to the D. 11, 453 O.G. 213.	merits is	
4) Claim(s) 1-6 is/are pending in the applicat		•		
4a) Of the above claim(s) is/are with	drawn from consideration.	•	•	
5) Claim(s) <u>1 and 4-6</u> is/are allowed.	€.			
6) Claim(s) is/are rejected.	•		•	
7) Claim(s) 2 and 3 is/are objected to.	•		;	
8) Claim(s) are subject to restriction ar Application Papers	nd/or election requirement.			
9)☐ The specification is objected to by the Exam	niner.			
10) ☐ The drawing(s) filed on is/are: a) ☐ a	ccepted or b) objected to by th	ne Examiner.		
Applicant may not request that any objection t	o the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a)		
11) The proposed drawing correction filed on	is: a)∏ approved b)∏ di	sapproved by the Examiner.		
If approved, corrected drawings are required in	n reply to this Office action.	•		
12) The oath or declaration is objected to by the	Examiner.			
Priority under 35 U.S.C. §§ 119 and 120		•		
13) Acknowledgment is made of a claim for for	eign prionty under 35 U.S.C. §	119(a)-(d) or (f).		
a) ☐ All b) ☐ Some * c) ⊠ None of:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	
1 🛛 Certified copies of the priority docum	ents have been received.		•	
2. Certified copies of the priority docum		pplication No.	• ,	
 3. Copies of the certified copies of the paper of the pap	priority documents have been in	eceived in this National St	age	
14) Acknowledgment is made of a claim for domain	ist of the certified copies not r	eceived.		
14) ☐ Acknowledgment is made of a claim for dome	provisional application to	119(e) (to a provisional a	oplication).	
 a) ☐ The translation of the foreign language 15)☐ Acknowledgment is made of a claim for dom 	provisional application has be estic priority under 35 U.S.C. &	en received. SS 120 and/or 121		
Attachment(s)	, , , , , , , , , , , , , , , , , , , ,) GIIG/OF [2], '		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of In	ummary (PTO-413) Paper No(s). formal Patent Application (PTO-1	52)	

Art Unit: 2611

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 & 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Birch, (U.S. Pat # 5,583,562).

Considering claim 1, the claimed digital broadcasting receiver comprising a transport unit for separating/dividing a demodulated digital broadcast signal reads on the operation of the demultiplexor 156 in Birch, which receives a demodulated signal from the demodulator 154, see Fig. 1 & col. 5, lines 49-51. The claimed feature of detecting one of a one-channel or mutlichannel broadcast based on a packet ID included in the digital broadcast signal is met by the receiver's detection of the HDTV flag. Birch teaches that the packet header includes a code, which identifies video services, and an additional HDTV flag is also set in order to identify a video stream as being of HDTV format, col. 11, lines 15-45; col. 22, lines 51-65; col. 23, lines 1-6 & Fig. 12B.

Art Unit: 2611

As for the additionally claimed feature of a sub-channel control unit that outputs a broadcast signal with a predetermined packet ID when the detected result indicates multi-channel broadcasting, the recitation reads on the disclosure of the data processors 157, see col. 5, lines 56-61.

Considering claim 4, the claimed outputting the OSD of the sub-channel of the broadcasting signal is broad enough to read on actually outputting the video signal itself, which is inherently how Birch operates, see col. 5, lines 56-58 & col. 6, lines 11-15.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 5 & 6 are rejected under 35.U.S.C. 103(a) as being unpatentable over Birch.

Considering claims 5-6, the claimed method of controlling a digital broadcasting receiver includes steps that correspond with subject matter mentioned above in the rejection of claims 1

Art Unit: 2611

& 4, and are likewise analyzed. As for the additional step of an OSD control unit causing an OSD to be made by superimposing data on broadcasting screen, Birch does not discuss such a feature. Nevertheless, Official Notice is taken that at the time the invention was made; superimposing data on a screen such as the channel that is currently tuned was well known in the art. It would have been obvious for one of ordinary skill in the art at the time the invention was made, to modify Birch with the known technique of superimposing information, such the channel tuned onto a TV screen for the beneficial purpose of providing the viewer with useful additional information with respect to the currently tuned TV program.

As for claim 6, the newly added claim calls for a computer software product for performing the method steps recited in claim 5. Birch does not explicitly show that the receiver system 150 is computerized. Official Notice is taken that at the time the invention was made, it was well known in the art to include in a subscriber terminal, such as a set-top box, a microprocessor being controlled by computer software stored in memory, such as ROM. It would have been obvious for one of ordinary skill in the art at the time the invention was made, to modify Birch with the very well known feature of a microprocessor being controlled by computer software, at least for the desirable improvement of a more dynamic equipment which can be programmed to provide various features to different subscribers.

Art Unit: 2611

Allowable Subject Matter

5. Claims 2-3 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Considering claim 2, the prior art of record does not teach or fairly suggest the claimed features comprising a setting unit for setting a sub-channel to be initially displayed when the one-channel broadcasting is switched to multi-channel broadcasting, a recording unit for holding the sub-channel set via the setting unit, such that that the sub-channel control unit controls the transport unit so that when a multi-channel broadcasting signal is detected, a packet ID corresponding to the sub-channel held in the recording unit is outputted. Claim 3 depends from claim 2, and is likewise allowable for at the same reasons.

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- A) Morrison Teaches a HD to SD converter, which detects whether programs on an EPG are SDTV or HDTV.
- B) WU Detects whether a signal is an HDTV for an encoder.
- C) Gove Teaches dividing TV signals into various channels.

Art Unit: 2611

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9314, (for formal communications intended for entry)

Or:

(703) 872-9314 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brown M. Reuben whose telephone number is (703) 305-2399. The examiner can normally be reached on M-F (8:30-6:00), First Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew I. Faile can be reached on (703) 305-4380. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9314 for regular communications and After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Reuben M. Brown

ANDREW FAILE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600